

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/788,564 A  
Source: IFW16  
Date Processed by STIC: 08/17/2006

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 08/17/2006

PATENT APPLICATION: US/10/788,564A

TIME: 10:37:53

Input Set : A:\39750-0008C1 Saved August 10, 2006.txt

Output Set: N:\CRF4\08172006\J788564A.raw

4 <110> APPLICANT: HANSEN, Stig  
 5 WIESMANN, Christian  
 7 <120> TITLE OF INVENTION: Compounds that Modulate the Activity of  
 8 PTP-1B and TC-PTP  
 10 <130> FILE REFERENCE: 39750-0008C1  
 12 <140> CURRENT APPLICATION NUMBER: 10/788,564A  
 13 <141> CURRENT FILING DATE: 2004-02-27  
 15 <150> PRIOR APPLICATION NUMBER: US 60/361,475  
 16 <151> PRIOR FILING DATE: 2002-03-01  
 18 <150> PRIOR APPLICATION NUMBER: US 10/374,539  
 19 <151> PRIOR FILING DATE: 2003-02-25  
 21 <160> NUMBER OF SEQ ID NOS: 33  
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 298  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Homo sapiens  
 30 <400> SEQUENCE: 1  
 31 Met Glu Met Glu Lys Glu Phe Glu Gln Ile Asp Lys Ser Gly Ser Trp  
 32 1 5 10 15  
 33 Ala Ala Ile Tyr Gln Asp Ile Arg His Glu Ala Ser Asp Phe Pro Cys  
 34 20 25 30  
 35 Arg Val Ala Lys Leu Pro Lys Asn Lys Asn Arg Asn Arg Tyr Arg Asp  
 36 35 40 45  
 37 Val Ser Pro Phe Asp His Ser Arg Ile Lys Leu His Gln Glu Asp Asn  
 38 50 55 60  
 39 Asp Tyr Ile Asn Ala Ser Leu Ile Lys Met Glu Glu Ala Gln Arg Ser  
 40 65 70 75 80  
 41 Tyr Ile Leu Thr Gln Gly Pro Leu Pro Asn Thr Cys Gly His Phe Trp  
 42 85 90 95  
 43 Glu Met Val Trp Glu Gln Lys Ser Arg Gly Val Val Met Leu Asn Arg  
 44 100 105 110  
 45 Val Met Glu Lys Gly Ser Leu Lys Cys Ala Gln Tyr Trp Pro Gln Lys  
 46 115 120 125  
 47 Glu Glu Lys Glu Met Ile Phe Glu Asp Thr Asn Leu Lys Leu Thr Leu  
 48 130 135 140  
 49 Ile Ser Glu Asp Ile Lys Ser Tyr Tyr Thr Val Arg Gln Leu Glu Leu  
 50 145 150 155 160  
 51 Glu Asn Leu Thr Thr Gln Glu Thr Arg Glu Ile Leu His Phe His Tyr  
 52 165 170 175  
 53 Thr Thr Trp Pro Asp Phe Gly Val Pro Glu Ser Pro Ala Ser Phe Leu  
 54 180 185 190  
 55 Asn Phe Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Ser Pro Glu His

CP9-6)

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56          195          200          205
57 Gly Pro Val Val Val His Cys Ser Ala Gly Ile Gly Arg Ser Gly Thr
58          210          215          220
59 Phe Cys Leu Ala Asp Thr Cys Leu Leu Leu Met Asp Lys Arg Lys Asp
60 225          230          235          240
61 Pro Ser Ser Val Asp Ile Lys Lys Val Leu Leu Glu Met Arg Lys Phe
62          245          250          255
63 Arg Met Gly Leu Ile Gln Thr Ala Asp Gln Leu Arg Phe Ser Tyr Leu
64          260          265          270
65 Ala Val Ile Glu Gly Ala Lys Phe Ile Met Gly Asp Ser Ser Val Gln
66          275          280          285
67 Asp Gln Trp Lys Glu Leu Ser His Glu Asp
68          290          295
71 <210> SEQ ID NO: 2
72 <211> LENGTH: 296
73 <212> TYPE: PRT
74 <213> ORGANISM: Homo sapiens
76 <400> SEQUENCE: 2
77 Met Pro Thr Thr Ile Glu Arg Glu Phe Glu Glu Leu Asp Thr Gln Arg
78 1          5          10          15
79 Arg Trp Gln Pro Leu Tyr Leu Glu Ile Arg Asn Glu Ser His Asp Tyr
80          20          25          30
81 Pro His Arg Val Ala Lys Phe Pro Glu Asn Arg Asn Arg Asn Arg Tyr
82          35          40          45
83 Arg Asp Val Ser Pro Tyr Asp His Ser Arg Val Lys Leu Gln Asn Ala
84          50          55          60
85 Glu Asn Asp Tyr Ile Asn Ala Ser Leu Val Asp Ile Glu Glu Ala Gln
86 65          70          75          80
87 Arg Ser Tyr Ile Leu Thr Gln Gly Pro Leu Pro Asn Thr Cys Cys His
88          85          90          95
89 Phe Trp Leu Met Val Trp Gln Gln Lys Thr Lys Ala Val Val Met Leu
90          100          105          110
91 Asn Arg Ile Val Glu Lys Glu Ser Val Lys Cys Ala Gln Tyr Trp Pro
92          115          120          125
93 Thr Asp Asp Gln Glu Met Leu Phe Lys Glu Thr Gly Phe Ser Val Lys
94          130          135          140
95 Leu Leu Ser Glu Asp Val Lys Ser Tyr Tyr Thr Val His Leu Leu Gln
96 145          150          155          160
97 Leu Glu Asn Ile Asn Ser Gly Glu Thr Arg Thr Ile Ser His Phe His
98          165          170          175
99 Tyr Thr Thr Trp Pro Asp Phe Gly Val Pro Glu Ser Pro Ala Ser Phe
100          180          185          190
101 Leu Asn Phe Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Asn Pro Asp
102          195          200          205
103 His Gly Pro Ala Val Ile His Cys Ser Ala Gly Ile Gly Arg Ser Gly
104          210          215          220
105 Thr Phe Ser Leu Val Asp Thr Cys Leu Val Leu Met Glu Lys Gly Asp
106 225          230          235          240
107 Asp Ile Asn Ile Lys Gln Val Leu Leu Asn Met Arg Lys Tyr Arg Met

```

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```

108          245          250          255
109 Gly Leu Ile Gln Thr Pro Asp Gln Leu Arg Phe Ser Tyr Met Ala Ile
110          260          265          270
111 Ile Glu Gly Ala Lys Cys Ile Lys Gly Asp Ser Ser Ile Gln Lys Arg
112          275          280          285
113 Trp Lys Glu Leu Ser Lys Glu Asp
114          290          295
117 <210> SEQ ID NO: 3
118 <211> LENGTH: 296
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 3
123 Pro Ile Thr Asp Leu Ala Asp Asn Ile Glu Arg Leu Lys Ala Asn Asp
124 1          5          10          15
125 Gly Leu Lys Phe Ser Gln Glu Tyr Glu Ser Ile Asp Pro Gly Gln Gln
126          20          25          30
127 Phe Thr Trp Glu Asn Ser Asn Leu Glu Val Asn Lys Pro Lys Asn Arg
128          35          40          45
129 Tyr Ala Asn Val Ile Ala Tyr Asp His Ser Arg Val Ile Leu Thr Ser
130          50          55          60
131 Ile Asp Gly Val Pro Gly Ser Asp Tyr Ile Asn Ala Asn Tyr Ile Asp
132 65          70          75          80
133 Gly Tyr Arg Lys Gln Asn Ala Tyr Ile Ala Thr Gln Gly Pro Leu Pro
134          85          90          95
135 Glu Thr Met Gly Asp Phe Trp Arg Met Val Trp Glu Gln Arg Thr Ala
136          100          105          110
137 Thr Val Val Met Met Thr Arg Leu Glu Glu Lys Ser Arg Val Lys Cys
138          115          120          125
139 Asp Gln Tyr Trp Pro Ala Arg Gly Thr Glu Thr Cys Gly Leu Ile Gln
140          130          135          140
141 Val Thr Leu Leu Asp Thr Val Glu Leu Ala Thr Tyr Thr Val Arg Thr
142 145          150          155          160
143 Phe Ala Leu His Lys Ser Gly Ser Ser Glu Lys Arg Glu Leu Arg Gln
144          165          170          175
145 Phe Gln Phe Met Ala Trp Pro Asp His Gly Val Pro Glu Tyr Pro Thr
146          180          185          190
147 Pro Ile Leu Ala Phe Leu Arg Arg Val Lys Ala Cys Asn Pro Leu Asp
148          195          200          205
149 Ala Gly Pro Met Val Val His Cys Ser Ala Gly Val Gly Arg Thr Gly
150          210          215          220
151 Cys Phe Ile Val Ile Asp Ala Met Leu Glu Arg Met Lys His Glu Lys
152 225          230          235          240
153 Thr Val Asp Ile Tyr Gly His Val Thr Cys Met Arg Ser Gln Arg Asn
154          245          250          255
155 Tyr Met Val Gln Thr Glu Asp Gln Tyr Val Phe Ile His Glu Ala Leu
156          260          265          270
157 Leu Glu Ala Ala Thr Cys Gly His Thr Glu Val Pro Ala Arg Asn Leu
158          275          280          285
159 Tyr Ala His Ile Gln Lys Leu Gly

```

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160      290      295
163 <210> SEQ ID NO: 4
164 <211> LENGTH: 320
165 <212> TYPE: PRT
166 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 4
169 Met Glu Met Glu Lys Glu Phe Glu Gln Ile Asp Lys Ser Gly Ser Trp
170 1      5      10      15
171 Ala Ala Ile Tyr Gln Asp Ile Arg His Glu Ala Ser Asp Phe Pro Cys
172      20      25      30
173 Arg Val Ala Lys Leu Pro Lys Asn Lys Asn Arg Asn Arg Tyr Arg Asp
174      35      40      45
175 Val Ser Pro Phe Asp His Ser Arg Ile Lys Leu His Gln Glu Asp Asn
176      50      55      60
177 Asp Tyr Ile Asn Ala Ser Leu Ile Lys Met Glu Ala Gln Arg Ser
178 65      70      75      80
179 Tyr Ile Leu Thr Gln Gly Pro Leu Pro Asn Thr Cys Gly His Phe Trp
180      85      90      95
181 Glu Met Val Trp Glu Gln Lys Ser Arg Gly Val Val Met Leu Asn Arg
182      100      105      110
183 Val Met Glu Lys Gly Ser Leu Lys Cys Ala Gln Tyr Trp Pro Gln Lys
184      115      120      125
185 Glu Glu Lys Glu Met Ile Phe Glu Asp Thr Asn Leu Lys Leu Thr Leu
186      130      135      140
187 Ile Ser Glu Asp Ile Lys Ser Tyr Tyr Thr Val Arg Gln Leu Glu Leu
188 145      150      155      160
189 Glu Asn Leu Thr Thr Gln Glu Thr Arg Glu Ile Leu His Phe His Tyr
190      165      170      175
191 Thr Thr Trp Pro Asp Phe Gly Val Pro Glu Ser Pro Ala Ser Phe Leu
192      180      185      190
193 Asn Phe Leu Phe Lys Val Arg Glu Ser Gly Ser Leu Ser Pro Glu His
194      195      200      205
195 Gly Pro Val Val Val His Cys Ser Ala Gly Ile Gly Arg Ser Gly Thr
196      210      215      220
197 Phe Cys Leu Ala Asp Thr Cys Leu Leu Leu Met Asp Lys Arg Lys Asp
198 225      230      235      240
199 Pro Ser Ser Val Asp Ile Lys Lys Val Leu Leu Glu Met Arg Lys Phe
200      245      250      255
201 Arg Met Gly Leu Ile Gln Thr Ala Asp Gln Leu Arg Phe Ser Tyr Leu
202      260      265      270
203 Ala Val Ile Glu Gly Ala Lys Phe Ile Met Gly Asp Ser Ser Val Gln
204      275      280      285
205 Asp Gln Trp Lys Glu Leu Ser His Glu Asp Leu Glu Pro Pro Pro Glu
206      290      295      300
207 His Ile Pro Pro Pro Pro Arg Pro Pro Lys Arg Ile Leu Glu Pro His
208 305      310      315      320
211 <210> SEQ ID NO: 5
212 <211> LENGTH: 29
213 <212> TYPE: DNA

```

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Output Set: N:\CRF4\08172006\J788564A.raw

```

214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 5
217 gccatatgga gatggaaaag gagttcgag                29
219 <210> SEQ ID NO: 6
220 <211> LENGTH: 40
221 <212> TYPE: DNA
222 <213> ORGANISM: Homo sapiens
224 <400> SEQUENCE: 6
225 gcgacgcgaa ttcttaattg tgtggctcca ggattcgttt    40
227 <210> SEQ ID NO: 7
228 <211> LENGTH: 34
229 <212> TYPE: DNA
230 <213> ORGANISM: Homo sapiens
232 <400> SEQUENCE: 7
233 tgccggaatt ccttagtcct cgtgggaaaag ctcc        34
235 <210> SEQ ID NO: 8
236 <211> LENGTH: 27
237 <212> TYPE: DNA
238 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 8
241 ttcttggcgt ttcttcgcaa agtccga                27
243 <210> SEQ ID NO: 9
244 <211> LENGTH: 27
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 9
249 gactttgcga agaaacgcca agaatga                27
251 <210> SEQ ID NO: 10
252 <211> LENGTH: 21
253 <212> TYPE: DNA
254 <213> ORGANISM: Homo sapiens
256 <400> SEQUENCE: 10
257 ggtgccaaat gcatcatggg g                      21
259 <210> SEQ ID NO: 11
260 <211> LENGTH: 21
261 <212> TYPE: DNA
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 11
265 ccccatgatg catttggcac c                      21
267 <210> SEQ ID NO: 12
268 <211> LENGTH: 34
269 <212> TYPE: DNA
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 12
273 tgccggaatt ccttagtcct cgtgcgaaaag ctcc        34
275 <210> SEQ ID NO: 13
276 <211> LENGTH: 31
277 <212> TYPE: DNA
278 <213> ORGANISM: Homo sapiens

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/17/2006  
PATENT APPLICATION: US/10/788,564A      TIME: 10:37:54

Input Set : A:\39750-0008C1 Saved August 10, 2006.txt  
Output Set: N:\CRF4\08172006\J788564A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:30; Xaa Pos. 3,4,5,6,7

Seq#:31; Xaa Pos. 3,4,5,6,7

Seq#:32; Xaa Pos. 3,4,5,6,7

Seq#:33; Xaa Pos. 3,4,5,6,7

**VERIFICATION SUMMARY**

DATE: 08/17/2006

PATENT APPLICATION: US/10/788,564A

TIME: 10:37:54

Input Set : A:\39750-0008C1 Saved August 10, 2006.txt

Output Set: N:\CRF4\08172006\J788564A.raw

L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0

L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0

L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

L:479 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0